

 $1_{000000} f(x)_{00} f(4+x) = f(4-x)_{0} f(0) = 0_{000} x \in (0_{0}4]_{00} f(x) = \frac{h(2x)}{x}_{000} f(x) + af(x) > 0$ $0^{[-200]} 00000 300 00000000 a_{00000}$

 $3000000 f(x) = f(4+x) = f(4-x) = f(4-x) = f(4-x) = f(4-x) = f(x) = \frac{h(2x)}{x} = \frac{h$

010000 ^{f(x)}00000

010000 f(x) 0000000 a000000

$$600000 \; A = \{x | \; \vec{x^2} + 2x - \; 3 > 0\}_{000} \; B = \{x | \; \vec{x^2} - \; 2ax - \; 1, \; 0_0 \; a > 0\}_{0}$$

$$0 = 1 \quad A \cap B$$

$$f(x) = \frac{x}{e^x}(x > 0)$$

010000 ^{f(x)}00000

 $20000 g(x) = f(x) - m_{000000000} m_{000000}$

0300000 $f^{2}(x) - af(x) > 0$ 00000000000 a0000000

$$f(x) = \frac{\ln x}{x}$$
800000 $f(x) = \frac{\ln x}{x}$
0100 $f(x) = \frac{1}{x}$

020000 X_{0000} $f^{2}(x) + mf(x) > 0$ 00000000000 m_{000000}

$$f(x) = \frac{\ln(2x)}{x}$$

$$900000 f(x) = \frac{\ln(2x)}{x}$$

$$(1)_{0} f(x) = \frac{1}{2} \frac{1}$$

 $(II)_{000} x_{0000} f^2(x) + m\mathbf{f}(x) > 0_{0000000000} m_{000000}$

$$1000000 f(x) = \frac{ln(2x)}{x}$$

020000
X
0000 $^{f^{2}}(x) + mf(x) > 0$ 0000000000 m 000000

$$h(x) = X - \frac{f(x)}{e^x} = 0 = 0 = 0 = 0 = 0$$

$$0 = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0$$

$$0 = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0$$

$$\mathbf{1200000}\ f(x) = a(x-1) {\scriptstyle \square}\ g(x) = e^{x}(bx-1) {\scriptstyle \square}\ a \in R_{\square}$$

$$0100 b = 20000 y = f(x) - g(x) 0000000 a000000$$

$$13000000 \ f(x) = m x^{a}_{000000} \ A(2,2)_{0}$$

 $\square 1 \square^{2lnf} \square 3 \square \square^{3lnf} \square 2 \square \square \square \square$

$$g(x) = \begin{cases} 1 - f(x), x \in [0, 1) \\ \frac{\ln x}{X}, x \in [1, 4] \end{cases}$$

$$0 = \begin{cases} 1 - f(x), x \in [0, 1) \\ \frac{\ln x}{X}, x \in [1, 4] \end{cases}$$

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$$\mathbf{14}_{\square\square\square\square\square} \ f(x) = e^{x}(2x - 1) - ax + a(a \in R)_{\square} e_{\square\square\square\square\square\square\square\square\square}$$

0100a=100

①
$$\bigcap f(x) \bigcap X = -\frac{1}{2} \bigcap \bigcap f(x) \cap X = -\frac{1}{2} \bigcap \bigcap f(x) \cap X = -\frac{$$

0200000000 X_0 000 $f(X_0) < 0$ 0000 ∂ 000000

 $f(x) = (x-1)e^{x} - \frac{a}{2}x^{2} = 0$ 1500000 f(x) = 0 01000 f(x) = 0 15000000 a = 0



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